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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

REPORT

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COUNTRY

East Germany

DATE DISTR. 26 August 1954

SUBJECT

Norms and Technical Data of Products of
VEB Kombinat Espenhain

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- The following table lists the technical data on products put out during the first quarter of 1954 by VEB Kombinat Espenhain, an SAG enterprise until 31 December 1953, now under the Main Administration of Liquid Fuels in Production Area Chemistry in the East German Ministry for Heavy Industry.
- The table lists the technical norms for 1954 and the values obtained during the first quarter of 1954. For comparison the corresponding average values for the first quarter of 1953 are also indicated.

Product	Unit	Norm 1954	1st Quarter 1954	1st Quarter 1953
<u>Raw Coal</u>				
Water	percent	less than 54	53.8	54.03
Ashes	percent	less than 12	7.4	7.02
Combustible matter	percent	more than 34	38.8	38.15
Sulfur	percent	more than 7	7.75	7.70
Sulfur	percent	more than 1	1.25	1.5
Heating value	Kcal/kg	more than 2,200	2,356	2,250
<u>Briquettes for Sale</u>				
Water	percent	less than 18	14.90	15.15
Ashes	percent	less than 14	13.66	14.40
Combustible matter	percent	more than 68	71.44	70.15
Heating value	Kcal/kg	more than 4,000	4,795	4,641
Pressure resistance (warm)	Kg/cm ²	more than 80	80.7	85.6
Specific gravity	t/m ³		1,230	1,252
<u>Distillation Briquettes</u>				
Water	percent	less than 15.0	14.90	15.44
Ashes	percent	less than 14.5	13.66	14.32
Combustible matter	percent	less than 70.5	71.14	70.24

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Product	Unit	Norm 1954	1st quarter 1954	1st quarter 1955
<u>Tar for Sale</u>				
Specific gravity at 50° Centigrade	t/m ³	less than 0.960	0.953	0.952
Dust content	percent	0.50	0.64	0.69
Solidifying point	Centigrade	-	37.6	38.3
Boiling up to 320° Centigrade	percent	28.0	29.6	23.1
Water	percent	less than 0.30	0.18	0.13
<u>Light Oil</u>				
Specific gravity at 20° Centigrade	t/m ³	less than 0.870	0.868	0.860
Water	Vol. percent	less than 0.30	0.24	0.20
Flash point	Centigrade	-	plus 2	minus 1
Boiling up to:				
100° Centigrade	vol. percent	4.0	4.0	4.5
150° Centigrade	Vol. percent	30.0	29.0	31.5
190° Centigrade	Vol. percent	-	58.0	60.3
<u>Dry coke</u>				
Water	percent	less than 3.0	1.40	0.73
Ashes	percent	less than 28.0	28.0	29.05
Combustible matter	percent	less than 69.0	70.60	70.22
Tar	percent	less than 1.5	1.50	1.12
Volatile matter	percent	less than 15.0	15.0	14.40
Heating value	Kcal/kg	more than 5500	5.739	5.647
<u>Sulfur</u>				
H ₂ S in raw gas	g/m ³	-	31.1	30.96
H ₂ S in pure gas	g/m ³	-	8.3	6.29
H ₂ S in Austreiber gas	g/m ³	-	59.6	67.10
Purity	percent	99.92	99.98	99.92
Ashes	percent	less than 0.01	0.007	0.008
Carbon	percent	less than 0.02	0.004	0.011
<u>Raw Phenol</u>				
Specific gravity at 20° Centigrade	t/m ³	1.060 - 1.070	1.068	1.063
Water	percent	16.0 - 17.0	16.2	16.10
Phenol content	percent	22.28	26.0	27.10
Kresol content	percent	30 - 35	30.5	25.05
Xylenol content	percent	15 - 18	16.0	16.2
<u>Raw pyridin</u>				
Specific gravity at 20° Centigrade	t/m ³	0.990 - 1	0.980	0.985
Boiling limit	Centigrade	180 - 200	104 - 215	104 - 225
Water	percent	less than 9	7.2	6.7
Pure pyridin	percent	0.2 - 0.5	0.6	0.3
How test	percent	50 - 60	52.83	40.5
High-boiling bases	percent	18 - 22	25.45	19.9
<u>Isketol</u>				
Specific gravity at 20° Centigrade	t/m ³	0.825 to 0.835	0.824	0.822
Boiling limit	Centigrade	70 - 140	68 - 122	62 - 110
Water	percent	less than 6.0	4.8	7.2
Methy-ethyl-Keton	percent	60 - 70	70.64	68.96
Acetonitril	percent	-	0.31	0.77
Ester	percent	-	3.48	3.11

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<u>Product</u>	<u>Unit</u>	<u>Norm. 1954</u>	<u>1st Quarter</u> <u>1954</u>	<u>1st Quarter</u> <u>1955</u>
<u>Paraffin mass</u>				
Specific gravity at 50° Centigrade	t/m ³	less than 0.950	0.944	0.936
Water and dust	percent	less than 1.0	0.07	0.10
Solidification temperature	Centigrade	plus 37	35.8	32.60
Paraffin content at zero Centigrade	percent	more than 18	21.8	19.90
Solidifying point	Centigrade	-	54.50	54.50
Start of boiling	Centigrade	-	295	321
Boiling up to 360° Centigrade	vol. percent	-	26	18
<u>Raw gas oil</u>				
Flash point	Centigrade	50	9-	59
Start of boiling	Centigrade	-	220	197
End of boiling(95%)	Centigrade	350	342	341
Solidifying point	Centigrade	minus 5	minus 5.2	minus 2.5
Creosote	Vol. percent	less than 25	20.9	23.32
Water	percent	less than 0.8	0.3	0.55
Specific gravity at 20° Centigrade	t/m ³	0.955	0.941	0.945
<u>Electrode coke</u>				
Water	percent	less than 0.3	0.2	0.13
Ashes	percent	1.5	2.08	1.21
Combustible matter	percent	-	97.05	98.76
Sulphur	percent	less than 1.5	1.13	1.31
Volatile matter	percent	less than 1.5	0.63	0.82
Heating value	Kcal/kg	-	7.836	7.231

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